

Refine Search

Search Results -

Terms	Documents
L15 and L9	5

Database: US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L16

Search History

DATE: Thursday, October 13, 2005 [Printable Copy](#) [Create Case](#)

<u>Set</u>	<u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>	<u>result set</u>
side by side					
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;			
		OP=OR			
<u>L16</u>	L15 and 19		5	<u>L16</u>	
<u>L15</u>	L14 and 18		63	<u>L15</u>	
<u>L14</u>	L10 or l11 or l12		6101	<u>L14</u>	
<u>L13</u>	l10-L12		10138672	<u>L13</u>	
<u>L12</u>	705/8,15,22,28-29.ccls.		3521	<u>L12</u>	
<u>L11</u>	99/325,407.ccls.		1166	<u>L11</u>	
<u>L10</u>	700/247,207,245.ccls.		1419	<u>L10</u>	
<u>L9</u>	L8 and (quantit\$ with (plan\$ or desir\$) with time\$)		6	<u>L9</u>	
<u>L8</u>	l4 or l5 or l6 or l7		150	<u>L8</u>	

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

(4685386 | 4742455 | 3283695 | 5101352 | 3033059 | 4289064 | 3641263 |
4616971 | 4036569 | 3866795 | 4688549 | 2841074 | 4553222 | 3984009 |

4295771	4664590	4611749	5053970	3456425	3080999	4744026	
4744027	3228320	4503507	4044660	4646238	4226176	5172313	
5093794	2616359	4595333	3665842	3218960	3442200	3410198	
L7	5148370	3227313	3653541	4074793	3442423	5185715	3908531
	0372380	4438683	2253027	4924386	3262593	5216593	3391633
	3273488	3183856	4628974	4171144	1672738	5140537	3690247
	4176590	5155679	3340790	2949200	3340792	3910535	1755699
	4228730	4885686	4627785)	![PN]			

66 L7

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
OP=OR*

L6 ('5630070| '4922435')[ABPN1, NRPN, PN, TBAN, WKU] 4 L6

L5 ('5630070| '4922435')[URPN] 80 L5

L4 I2 2 L4

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L3 L2 and food\$ 2 L3

L2 4922435.pn. or 5630070.pn. 2 L2

L1 6026372.pn. 1 L1

END OF SEARCH HISTORY

Hit List

First Hit Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.



Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 6826538 B1

Using default format because multiple data bases are involved.

L9: Entry 1 of 6 File: USPT Nov 30, 2004

US-PAT-NO: 6826538

DOCUMENT-IDENTIFIER: US 6826538 B1

TITLE: Method for planning key component purchases to optimize revenue

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kalyan; Vibhu K.	Plano	TX		
Singh; Vikas	Irving	TX		
Starr; Jeffrey H.	Carrollton	TX		

US-CL-CURRENT: 705/7; 705/400, 705/8



2. Document ID: US 5172313 A

L9: Entry 2 of 6 File: USPT Dec 15, 1992

US-PAT-NO: 5172313

DOCUMENT-IDENTIFIER: US 5172313 A

**** See image for Certificate of Correction ****

TITLE: Computerized management system



3. Document ID: US 5053970 A

L9: Entry 3 of 6 File: USPT Oct 1, 1991

US-PAT-NO: 5053970
DOCUMENT-IDENTIFIER: US 5053970 A

TITLE: Work scheduling method

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawn](#)

4. Document ID: US 4922435 A

L9: Entry 4 of 6

File: USPT

May 1, 1990

US-PAT-NO: 4922435
DOCUMENT-IDENTIFIER: US 4922435 A
** See image for Certificate of Correction **

TITLE: Food preparation robot

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawn](#)

5. Document ID: US 4646238 A

L9: Entry 5 of 6

File: USPT

Feb 24, 1987

US-PAT-NO: 4646238
DOCUMENT-IDENTIFIER: US 4646238 A

TITLE: Material requirements planning system and procedures for use in process industries

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawn](#)

6. Document ID: US 3690247 A

L9: Entry 6 of 6

File: USPT

Sep 12, 1972

US-PAT-NO: 3690247
DOCUMENT-IDENTIFIER: US 3690247 A

TITLE: POTATO CHIP DISPENSING APPARATUS

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawn](#)

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OAGS
Terms			Documents		
L8 and (quantit\$ with (plan\$ or desir\$) with time\$)			6		

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HOME current search: Quantity Cooking last search:

Similar Searches

quantity recipes
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large groups
cooking quantities
quantity cookery
crowds
large quantity
large quantities
large quantities
growlies
servings
quantity cooking
large quantity cooking
quantity cooking recipes
cooking in quantity

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Top>Home>Cooking>Quantity Cooking>

> Once a Month Cooking

1. Quantity Cooking

Keine Beschreibung vorhanden.

http://www.wmlguru.net/Home/Cooking/Quantity_Cooking.htm**2. **Quantity Cooking** links and information concerning quantity cooking**

Impressum Yoody : Home : Cooking : Quantity Cooking : Quantity Cooking find, click buy quantity cooking Quantity Cooking WEHA Glass Ceramic . The glass ceramics large cooking fields have the stove coping or if requested it can also be circulate...
http://www.yoody.de/index.php/Home/Cooking/Quantity_Cooking.htm

3. Once a Month Cooking

Keine Beschreibung vorhanden.

http://www.wmlguru.net/Home/Cooking/Quantity_Cooking.htm[Click here to view additional sponsored links](#)**Alaska Seafood**

Recipes for quantity seafood preparation.

[\(http://www.alaskaseafood.org/flavor/recipes/large.htm\)](http://www.alaskaseafood.org/flavor/recipes/large.htm)**Allencanning.com: Food Service**

Provides food service recipes in download formats.

[\(http://www.allencanning.com/dining/foodservice.htm\)](http://www.allencanning.com/dining/foodservice.htm)**Apricot Foodservice Size Recipes**

A handful of recipes designed for large groups or crowds.

[\(http://www.apricotproducers.com/html/fdserrcpbx.htm\)](http://www.apricotproducers.com/html/fdserrcpbx.htm)**Buttered Carrots**

Two recipes included, one for feeding 6-8 people and one for feeding 250 people. Other ingredients include white wine, currants, and dates.
[\(http://www.godecookery.com/friends/frec49.htm\)](http://www.godecookery.com/friends/frec49.htm)

Customcatering.net: Seafood Gumbo

Full recipe makes three gallons.

[\(http://www.customcatering.net/Rec_soup/sfgumbo.html\)](http://www.customcatering.net/Rec_soup/sfgumbo.html)**Dayle's Growlies for Groups**

Large quantity recipes for groups, parties, freezing ahead, buffet table, food amounts serve 100.

[\(http://members.tripod.com/%7Elotsofinfo/index.html\)](http://members.tripod.com/%7Elotsofinfo/index.html)**Food Service Resource List Meal Planning & Preparation**

United States Department of Agriculture listing of some available publications.
(<http://www.nal.usda.gov/fnic/service/foodmp1.htm>)

Foodservice Recipes 

Recipes utilizing soyfoods for foodservice professionals. Includes preparation instructions and nutritional information. From The United Soybean Board.
(<http://www.talksoy.com/FoodIndustry/FoodserviceRecps.htm>)

Freezing Prepared Foods 

This factsheet from Clemson University provides information on safe preparation, thaw and serving, storage times and information on foods that do not freeze well.
(<http://hgic.clemson.edu/factsheets/HGIC3065.htm>)

Glazed Carrots 

Serves 45.
(<http://members.tripod.com/~lotsofinfo/V7Glazedcarrots.htm>)

Healthwise Quantity Cookbook 

Recipes for sides, soups, entrees, and baking in quantity.
(<http://www.canolainfo.org/html/quantity.html>)

Idaho Potato Recipes 

Foodservice recipes for large quantities.
(http://www.idahopotato.com/FoodService/Recipes/FS_RecipeIndex)

Link Culinaire Recipes 

A large index of chef recipes designed for restaurant use and large crowds.
(<http://www.flash.net/%7Echefr/hotline.htm>)

Potatoes.com: Recipes and Cooking 

A selection of foodservice recipes using potatoes.
(<http://www.potatoes.com/recipes.cfm?Query=I>)

Recipes from Challenge II 

Fifteen recipes to serve 50 to 100 people, from the USDA.
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RecipeSource: Serves 100 

A chart to calculate how much food is needed to serve 100 people.
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The Recipe Hut: Recipes for 50 Persons or More 

Includes spareribs and barbecue sauce, spaghetti and hamburger sauce, potato salad, meat loaf and tomato sauce.
(<http://recipehut.homestead.com/Bulk.html>)

UniChef.com 

Recipes for professional chefs. Yields are for foodservice applications.
(<http://www.unichef.com/recipes.htm>)

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quantity cookery
crowds
large quantity
large quantities
large quantities
growlies
servings
quantity cooking
large quantity cooking
quantity cooking recipes
cooking in quantity

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Top>Home>Cooking>Quantity Cooking>

> Once a Month Cooking

1. Web Catalog Agri- Shop - DWodp live

Search: Top : Home : Cooking : Quantity Cooking : Once a Month Cooking (20) Soups & Stews @ (53) See also: Home: Cooking: Outdoors (78) 50 this.border=1" alt="http://www.alaskaseafood.org/flavor/recipes/large.htm" /> » Alaska Seal R...
<http://www.agri-shop.ch/index.php/Home/Cooking/Qua....>

2. Searchalot Directory for Top/Home/Cooking/Quantity Cooking

Home Search News Weather Directions E- Mail Global Games Advanced Search Preferences
Directory: Top : Home : Cooking : Quantity Cooking (38) Once a Month Cooking (20) and Stews (53) Related Categories Home: Cooking: Outdoors Related Web Pages
<http://www.searchalot.com/Top/Home/Cooking/Quantity...>

3. Mega Cooking: A Revolutionary New Plan for Quantity Cooking

Published September, 2000 ISBN 1581820968 Hardcover
<http://www.compareshopbooks.com/books/1581820968.h....>

[Click here to view additional sponsored links](#)**Alaska Seafood**

Recipes for quantity seafood preparation.
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Allencanning.com: Food Service

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Recipes for professional chefs. Yields are for foodservice applications.
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wo-ist.de**cooking quantities**

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quantity cooking recipes
cooking in quantity

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Top>Home>Cooking>Quantity Cooking>

> Once a Month Cooking

1. Cook & Chill: Greater Quantities in Less Time

Convotherm - Product / Technic - Cook & Chill

http://www.convotherm.de/en_EN/produkte/cookchill.....**2. HDair e.pdf**

MKN presents With the new steam condensation hood for the HansDampf FlexiCombi ; dimension in flexibility is added! The HansDampf air ensures the HansDampf combi co technology can be used, independent of a tightly installed system for exhaust

http://www.mkn.de/english/news/HDair_e.pdf**3. Home: Cooking - Open Site**

Home: Cooking - Open Site.

<http://www.open-site.org/Home/Cooking/>[Click here to view additional sponsored I](#)**Alaska Seafood**

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State Partners ▾ ▶ October 13, 2005 Dining Info



View the [slide show](#) from the NRA's 20th annual [Public Affairs Conference](#), Sept 12-13 in Washington, D.C.



The National Restaurant Association announced the winners of the seventh annual [Restaurant Neighbor Award](#). See the [2005 finalists](#).



Learn more about [Ask Us!](#), the restaurant industry's voluntary, nationwide effort to help customers make informed menu choices.



Introducing the [Food Allergy Buddy](#) Dining Card program: A public service for food-allergic consumers to easily communicate specific food allergies to restaurant staff.

Association Serves as Clearinghouse on Restaurant-related Hurricane News:

Restaurateurs throughout the country are reaching out to employees and colleagues devastated by Hurricanes Katrina and Rita. Find out more about restaurants affected by the hurricanes and what the industry is doing to help on our [Hurricane Restaurant Resource Center](#). Follow all the news on the NRA's [Hurricane Restaurant blog](#) and [post or find a job](#) for displaced employees at our [Job Resource Center](#).



17,000+ Restaurants Participate in Dine for America:

Restaurants across the country banded together on October 5th for "Dine for America" day, a national fundraising effort to support the America Red Cross Disaster Relief Fund and help those affected by Hurricanes Katrina and Rita. Find which restaurants [participated](#) or learn more about the [big event](#).

Top News

News from the NRA for America's restaurateurs

- [New Orleans restaurateur Ralph Brennan testifies about hurricane's impact on industry](#)
- [MultiCultural Foodservice & Hospitality Alliance to tackle diversity topics at Oct. 5-6 symposium](#)

Recent press releases

More News

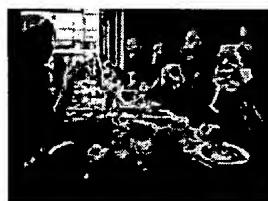
More restaurants, more news

- [Capitol Hill update](#)
- [Free e-mail news](#)
- [Fact of the Day](#)

TOOLBOX

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- [Industry research](#)
- [Buyers' Guide](#)



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- [Careers](#)
- [Community](#)

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Info to Go: Restaurant information when you need it

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Upcoming events

October 26-27
[Connecticut Restaurant Show](#)
Hartford, CT

October 26-27
[Fall Fiesta Trade Show & Convention](#)
Little Rock, AR

October 28-30
[IH&RA 42nd Annual Congress](#)
Beijing, China

- [More events](#)

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End of Result Set

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L2: Entry 2 of 2

File: USPT

May 1, 1990

US-PAT-NO: 4922435

DOCUMENT-IDENTIFIER: US 4922435 A

** See image for Certificate of Correction **

TITLE: Food preparation robot

DATE-ISSUED: May 1, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahlander; Robert L.	Red Wing	MN		
Carroll; David W.	Cannon Falls	MN		
Hanson; Robert A.	Inver Grove Heights	MN		
Hollingsworth; Al	Naperville	IL		
Reinertsen; John O.	Glen Ellyn	IL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Restaurant Technology, Inc.	Oak Brook	IL			02

APPL-NO: 07/176568 [PALM]

DATE FILED: April 1, 1988

INT-CL: [05] G06F 7/00

US-CL-ISSUED: 364/513, 364/400, 364/477, 99/407, 99/325

US-CL-CURRENT: 700/247; 700/207, 700/245, 99/325, 99/407

FIELD-OF-SEARCH: 364/513, 364/400, 364/477, 364/557, 99/403, 99/407, 99/325

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

 [Search Selected](#) [Search ALL](#) [Clear](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>372380</u>	November 1887	Morris	99/411
<input type="checkbox"/> <u>1672738</u>	June 1928	Stampley	99/411
<input type="checkbox"/> <u>1755699</u>	April 1930	Loehr	
<input type="checkbox"/> <u>2253027</u>	August 1941	Hall	214/8.5

<input type="checkbox"/>	<u>2616359</u>	November 1952	Pierson	99/407
<input type="checkbox"/>	<u>2841074</u>	July 1958	Schechter	99/355
<input type="checkbox"/>	<u>2949200</u>	August 1960	Haag	214/310
<input type="checkbox"/>	<u>3033059</u>	May 1962	Melton et al.	74/801
<input type="checkbox"/>	<u>3080999</u>	March 1963	Clarke et al.	221/266
<input type="checkbox"/>	<u>3183856</u>	May 1965	Jolly	107/1
<input type="checkbox"/>	<u>3218960</u>	November 1965	Leiby et al.	99/354
<input type="checkbox"/>	<u>3227313</u>	January 1966	Morena	222/57
<input type="checkbox"/>	<u>3228320</u>	January 1966	Tumonis	99/409
<input type="checkbox"/>	<u>3262593</u>	July 1966	Hainer	214/651
<input type="checkbox"/>	<u>3273488</u>	September 1966	Anetsberger	99/107
<input type="checkbox"/>	<u>3283695</u>	November 1966	Belshaw et al.	99/354
<input type="checkbox"/>	<u>3340790</u>	September 1967	Simjian	99/352
<input type="checkbox"/>	<u>3340792</u>	September 1967	Matzke	99/405
<input type="checkbox"/>	<u>3391633</u>	July 1968	Boosalis	99/357
<input type="checkbox"/>	<u>3410198</u>	November 1968	Lohr et al.	99/423
<input type="checkbox"/>	<u>3442200</u>	May 1969	Babel	99/357
<input type="checkbox"/>	<u>3442423</u>	May 1969	Cozad	222/70
<input type="checkbox"/>	<u>3456425</u>	July 1969	Pezza	53/236
<input type="checkbox"/>	<u>3641263</u>	February 1972	Rhoads et al.	178/6
<input type="checkbox"/>	<u>3653541</u>	April 1972	Crum	221/150HC
<input type="checkbox"/>	<u>3665842</u>	May 1972	Visitacion	99/332
<input type="checkbox"/>	<u>3690247</u>	September 1972	Van Cleven et al.	99/355
<input type="checkbox"/>	<u>3866795</u>	February 1975	Urano	221/150HC
<input type="checkbox"/>	<u>3908531</u>	September 1975	Morley	99/336
<input type="checkbox"/>	<u>3910535</u>	October 1975	Ohnaka	248/16
<input type="checkbox"/>	<u>3984009</u>	October 1976	Holroyd	214/1BB
<input type="checkbox"/>	<u>4036569</u>	July 1977	Oshikiri	425/140
<input type="checkbox"/>	<u>4044660</u>	August 1977	Montague et al.	99/326
<input type="checkbox"/>	<u>4074793</u>	February 1978	Yuter	186/1R
<input type="checkbox"/>	<u>4171144</u>	October 1979	Rodriguez	294/30
<input type="checkbox"/>	<u>4176590</u>	December 1979	Kochan	99/405
<input type="checkbox"/>	<u>4226176</u>	October 1980	Macchi	99/335
<input type="checkbox"/>	<u>4228730</u>	October 1980	Schindler et al.	99/329R
<input type="checkbox"/>	<u>4289064</u>	September 1981	Rosenblatt	99/334
<input type="checkbox"/>	<u>4295771</u>	October 1981	Mehesan, Jr.	414/5
<input type="checkbox"/>	<u>4438683</u>	March 1984	Bartfield	99/330
	<u>4503507</u>	March 1985	Takeda et al.	364/513

<input type="checkbox"/>	<u>4553222</u>	November 1985	Kurland et al.	364/900
<input type="checkbox"/>	<u>4595333</u>	June 1986	Mono et al.	414/729
<input type="checkbox"/>	<u>4611749</u>	September 1986	Kawano	228/176
<input type="checkbox"/>	<u>4616971</u>	October 1986	Matrone	414/730
<input type="checkbox"/>	<u>4627785</u>	December 1986	Monforte	414/730
<input type="checkbox"/>	<u>4628974</u>	December 1986	Meyer	141/129
<input type="checkbox"/>	<u>4664590</u>	May 1987	Maekawa	414/744
<input type="checkbox"/>	<u>4685386</u>	August 1987	Bezon	99/404
<input type="checkbox"/>	<u>4688549</u>	August 1987	Blankemeyer et al.	126/373
<input type="checkbox"/>	<u>4742455</u>	May 1988	Schreyer	364/400

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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
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2161294	June 1986	GB	

ART-UNIT: 236

PRIMARY-EXAMINER: MacDonald; Allen

ATTY-AGENT-FIRM: Jenner & Block

ABSTRACT:

A fully automated robotized system and method is provided for cooking food products. The system and method is especially useful for use in a quick service or fast food restaurant and, in one embodiment, is capable of cooking, on a fully automated basis, french fries, chicken nuggets, fish filets and chicken patties. In one embodiment, the system includes a robot, a bulk uncooked food dispensing station, a cooking station and a cooked food storage station. The system can be controlled by a computer operating and control station that controls and directs the robot to obtain bulk food from the dispensing station, place it in cooking position at the cooking station and when cooked, remove the food and deliver it to the storage station, at a rate required to fill anticipated customer orders.

118 Claims, 58 Drawing figures

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L2: Entry 1 of 2

File: USPT

May 13, 1997

US-PAT-NO: 5630070

DOCUMENT-IDENTIFIER: US 5630070 A

TITLE: Optimization of manufacturing resource planning

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dietrich; Brenda L.	Yorktown Heights	NY		
Wittrock; Robert J.	Ossining	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY			02	

APPL-NO: 08/108014 [PALM]

DATE FILED: August 16, 1993

INT-CL: [06] G06 F 17/60

US-CL-ISSUED: 395/208

US-CL-CURRENT: 705/8

FIELD-OF-SEARCH: 364/401, 364/402, 304/41R, 304/402, 395/207-208, 395/210

PRIOR-ART-DISCLOSED:

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4646238</u>	February 1987	Carlson, Jr. et al.	364/403
<input type="checkbox"/> <u>4744026</u>	May 1988	Vanderbei	364/402
<input type="checkbox"/> <u>4744027</u>	May 1988	Bayer et al.	364/402
<input type="checkbox"/> <u>4885686</u>	December 1989	Vanderbei	364/402
<input type="checkbox"/> <u>4924386</u>	May 1990	Freedman et al.	364/402
<input type="checkbox"/> <u>5053970</u>	October 1991	Kurihara et al.	364/468
<input type="checkbox"/> <u>5093794</u>	March 1992	Howie et al.	364/468

<input type="checkbox"/>	<u>5101352</u>	March 1992	Rembert	364/401
<input type="checkbox"/>	<u>5140537</u>	August 1992	Tullis	364/578
<input type="checkbox"/>	<u>5148370</u>	September 1992	Litt et al.	364/468
<input type="checkbox"/>	<u>5155679</u>	October 1992	Jain et al.	364/402
<input type="checkbox"/>	<u>5172313</u>	December 1992	Schumacher	364/401
<input type="checkbox"/>	<u>5185715</u>	February 1993	Zikan et al.	364/807
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"A Weighted-Gradient Approach to Multi-Objective Linear Programming Problems Using the Analytic Hierarchy Process", Arbel, Mathematical and Computer Modelling, vol. 14, No. 4/5, 1993, pp. 27-39.

"Determination of the Crop Mix of a Rubber and Oil Plantation--A Programming Approach", Tan et al., European Journal of Operational Research, vol. 34, 1988, pp. 362-371.

ART-UNIT: 241

PRIMARY-EXAMINER: Hayes; Gail O.

ASSISTANT-EXAMINER: Kyle; Charles

ATTY-AGENT-FIRM: Perman & Green

ABSTRACT:

A method for constrained material requirements planning, optimal resource allocation, and production planning provides for an optimization of a manufacturing process by designating the amounts of various manufactured products to be produced, which products include both end products as well as subassemblies to be employed in the manufacture of one or more of the end products. In order to accomplish the optimization, the method employs an objective function such as the maximization of income in a situation wherein there are limitations on the inventory of raw materials and tools to be employed in the manufacturing process. Data describing elemental steps in the manufacturing process for the production of each end product, as well as the quantity or demand for each end product which is to be supplied, are presented as a set of linear mathematical relationships in matrix form to be inserted in a computer which determines the optimum number of each end product in accordance with an LP optimization algorithm. The matrix contains bill

of material data, and various constraints such as a constraint on the sum of products shipped and used as subassemblies, and constraints based on inventory, on available time for use of resources such as tools, and on inventory left over from an early production run for a later run.

23 Claims, 10 Drawing figures

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Application
Number

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Information

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